



**RPX4500**  
**RPX4600**



RPX4500

RPX4600



**P25 CAP**

**DIGITAL VOICE SYSTEMS, INC.**  
The Speech Compression Specialists  
**AMBE+2 Vocodor**

## P25 Public Safety Handhelds

**Guaranteed compatible with other P25 radios.**

RCA's RPX4500/RPX4600 handheld radios meet all Project 25 (P25) specifications for Police, Fire, Ambulance, and other emergency services. P25 radios meet Military Standard Spec 810F for durability, shock and droppage. RCA's P25 radios have up to 5W of power for maximum signal coverage while lasting up to 11 hours on a single charge. RCA's 4 Year Warranty is the best in the industry, giving you peace of mind when purchasing P25 equipment.

### Features:

- ❑ **MultiCom™ Technology** Provides cross-platform P25 Conventional and P25 Trunking system capability, as well as Analog Conventional and MPT1327 Trunking system capability
- ❑ **P25 CAP Compliant Radios** Provides interoperability, integrating easily with any existing public safety analog, P25 Conventional and P25 Trunking Systems
- ❑ **Mixed Mode Operation** Auto Sense option enables radios to auto-detect incoming analog or P25 Digital signals
- ❑ **Encryption Options** DES-OFB 128-bit or AES 256-bit encryption in P25 Digital mode or Scrambler voice encryption in analog mode
- ❑ **Large Channel, Individual and Talkgroup Capacity** Radios have up to 1500 channels and up to 250 Individual/Talkgroup ID's
- ❑ **Voting/Scanning Functions** Dual mode scan, dual priority scan and trunked priority scan options with 240 Scan/Voting Groups
- ❑ **Safety/Emergency Functions** Lone Worker, Stun/Kill/Revive, Emergency Alarm and optional GPS/Man Down
- ❑ **Large PTT Button and Channel Selection Knob** Units are easy to use, even when wearing gloves
- ❑ **7 Programmable Buttons** Customize your radio to your needs



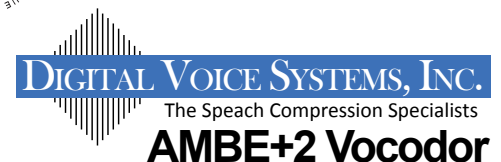
## RPX4500 / RPX4600 Specifications

GENERAL			
<b>Frequency Bands</b>	136 - 174 MHz (VHF "V"); 400 - 480 MHz (UHF "U"); 440 - 520 MHz (UHF "U2")		
<b>Dimensions</b>	(H) 5.8 inches (147mm) x (W) 2.5 inches (63mm) x (D) 1.4 inches (36mm)		
<b>Weight</b>	14.4 ounces (408g) with 3000 mAh battery		
<b>Power Supply</b>	Li-ion 2200 mAh or 3000 mAh		
<b>Battery Life</b>	>10 hours, high transmit power 2200 mAh battery, 90:5:5 duty cycle		
<b>Channel Stability</b>	<1.5 ppm		
<b>Display</b>	102 x 64 pixels		
<b>Switching Bandwidth</b>	Full band		
<b>Modulation</b>	Pre-emphasized FM, C4FM		
<b>Conformance</b>	EN 300 086, EN 300 113, EN 300 219, EN 300 489, EN 60950, AS4295, FCC, IC P25 CAP Compliant		
<b>Environmental Protection</b>	IP67 (Submersible/Dust Proof)		
Environmental Standards	MIL-STD-810 F	Method	Procedure
Low Pressure (Altitude), Storage	500.4	I	I
Low Pressure (Altitude), Operational	500.4	II	II
High Temp, Storage	501.4	I	I
High Temp, Operating	501.4	II	II
Low Temp, Storage	502.4	I	I
Low Temp, Operating	502.4	II	II
Thermal Shock	503.4	I	I
Solar Radiation	505.4	I(A2)	I(A2)
Relative Humidity	507.4		
Dust	510.4	I	I
Sand	510.4	II	II
General Vibration: Truck/trailer/tracked - restrained cargo	514.5	I Cat 24	I Cat 24
General Vibration: Minimum Integrity	514.5	I Cat 24	I Cat 24
Shock - Transit Drop	516.5	IV	IV
<b>Operating Temperature</b>	-22°F (-30°C) - 140°F (60°C)		

TRANSMITTER SPECIFICATION	
<b>Power Output</b>	0.5 - 5 W, 3 programmable levels
<b>Audio Distortion</b>	<3% at 1 kHz, 60% deviation
<b>Audio Frequency Response</b>	+1 dB to -3 dB of pre-emphasized 300 to 3000 Hz on 25 kHz Channel (300 to 2550 Hz on 12.5 kHz Channel)
<b>Tx/Rx switching time</b>	<25 ms
<b>Hum and Noise</b>	>40 dB (12.5 kHz); >45 dB (25 kHz)
RECEIVER SPECIFICATION	
<b>Sensitivity</b>	<0.3 μV for 12 dB SINAD <0.3 μV for 5% BER
<b>Selectivity</b>	>73 dB (25 kHz) >65 dB (12.5 kHz)
<b>Intermodulation</b>	>70 dB
<b>Audio Frequency Response</b>	+1 dB to -3 dB of de-emphasized 300 to 3000 Hz on 25 kHz Channel (300 to 2550 Hz on 12.5 kHz Channel)
<b>Audio Output</b>	500 mW into 16 Ω @ <5% distortion
<b>Blocking</b>	>95 dB at +/- 1 MHz
<b>Hum and Noise</b>	>40 dB (12.5 kHz); >45 dB (25 kHz)
ANALOG CONVENTIONAL	
<ul style="list-style-type: none"> <li>• Single and two-frequency simplex • Sequential Tone (selcall)</li> <li>• 200 channels (RPX4500) • 1,000 channels (RPX4600)</li> <li>• 240 scan / vote groups (RPX4600) • CTCSS, DCS, FFSK, DTMF</li> <li>• Analog mode including scrambler</li> </ul>	
ANALOG TRUNKING	
<ul style="list-style-type: none"> <li>• Two-frequency simplex in MPT 1327 trunked systems</li> <li>• 1024 trunked channels in 50 sub bands</li> <li>• MPT 1327 • MPT 1343</li> </ul>	
P25 CONVENTIONAL AND TRUNKING	
<ul style="list-style-type: none"> <li>• P25 CAP Complaint • 40 zones • 1,500 channel pool</li> <li>• 5 Trunking systems • Scanning • Voting • Emergency call</li> <li>• DES OFB and AES 256 Bit Encryption • Individual Calls</li> <li>• CTCSS, DCS, DTMF • 2 Tone, 5 Tone • AMBE+2 Vocoder</li> </ul>	



## P25 CAP



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